

IN THE CLAIMS:

Please cancel claims 1-14 without prejudice to or disclaimer of the subject matter recited therein.

Please add new claims 15-23 as follows:

LISTING OF CURRENT CLAIMS

Claims 1-14. (Canceled)

Claim 15. (New) A heat sink with guiding fins comprising:

- a) a base having:
 - i) a plate part; and
 - ii) two declining parts, each of the two declining parts extending
5 downwardly from an edge of the plate part;
- b) two groups of fins, each fin of the two groups of fins extending
upwardly from one of the two declining parts and being spaced apart
from each adjacent fin; and
- c) a concave part defined by an interior surface of each of the two groups
10 of fins and the plate part connected to an edge of each of the two
groups of fins.

Claim 16. (New) The heat sink according to claim 15, wherein the base and the two groups of fins are integrally formed.

Claim 17. (New) The heat sink according to claim 15, wherein the base and the two groups of fins are made of a material selected from a group consisting of copper and aluminum.

Claim 18. (New) The heat sink according to claim 15, wherein the concave part has a top having a width equal to a width of a bottom thereof.

Claim 19. (New) The heat sink according to claim 15, wherein the concave part has a top having a width larger than a width of a bottom thereof.

Claim 20. (New) A method for manufacturing a heat sink with guiding fins, which comprises the steps of:

- 5 a) forming a metal block having two parallel ramps, two convex parts, a concave part located between the two convex parts, and a plate part formed at a bottom of the concave part, a first of the two parallel ramps is formed at an angle less than 90 degrees from a block bottom of the block;
- b) cutting each of the two convex parts to form a fin and a declining part extending downwardly from an edge of the plate part;
- 10 c) bending each fin to be perpendicular to the block bottom of the block; and
- d) repeating the cutting step b) and the bending step c) until a predetermined number of spaced apart fins are form.

Claim 21. (New) The method according to claim 20, wherein in the forming step a) the metal block is selected from a group consisting of copper and aluminum.

Claim 22. (New) The method according to claim 20, wherein in the forming step a) the concave part has a top having a width equal to a width of a bottom thereof.

Claim 23. (New) The method according to claim 20, wherein in the forming step a) the concave part has a top having a width larger than a width of a bottom thereof.